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L2	873	703/6.ccls. and @pd>="20070101"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/09/10 15:16
L3	2018	dynamics near simulation and (contact or collision)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/09/10 16:16
L4	3	dynamics near simulation and (contact or collision) and binary near object	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/09/10 16:16
L5	346	dynamics and (contact or collision) and binary near object	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/09/10 16:17
L6	283	dynamics and (contact or collision) and binary near object and link	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/09/10 16:17
L7	49	dynamics and simulation and (contact or collision) and binary near object and link	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/09/10 16:18
L8	0	multibody and simulation and (contact or collision) and binary near object and link	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/09/10 16:19
L9	52	multibody and simulation and (contact or collision) and link	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2010/09/10 16:19

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by ED Gust - 2009

Molecular **dynamics** **simulation** of **collision** operator eigenvalues.

Erich D. Gust and L. E. Reichl Center for Complex Quantum

Systems and Department of Physics ...

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**Molecular Dynamics Simulation: Collision Reaction between CN**

and C4H6. MARI TAMAOKI, YUSUKE YAMAUCHI, HIROMI NAKAI.  
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### Rigid Body Dynamics - Chris Hecker's Website

May 14, 2007 ... This article covers 2D angular rigid body mechanics  
and the overall 2D **dynamics** algorithm. Physics, Part 3: **Collision**  
Response - Feb/Mar 97 ...  
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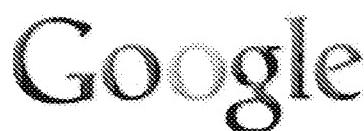
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**Dynamic Simulation** of Articulated Rigid Bodies with **Contact** and

Collision. Rachel Weinstein, Joseph Teran, and Ron Fedkiw ...

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### Dynamic Simulation of Articulated Rigid Bodies with Contact and ...

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[Brian Mirtich Thesis](#)

**Impulse-based Dynamic Simulation of Rigid Body Systems ...**  
through collisions; rolling, sliding, resting, and colliding **contact** are  
all modeled in this way. ...  
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In the present work, several molecular **dynamics simulations** have  
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between the specimen surface ...  
[onlinelibrary.wiley.com/doi/10.1002/ft.3020090203/abstract](http://onlinelibrary.wiley.com/doi/10.1002/ft.3020090203/abstract)

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Tension and Contact ...**

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In Chapter 1, a short introduction to the surface tension and **contact**  
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Hi-Res PDF[80 KB] ...  
[pubs.acs.org/doi/abs/10.1021/nl015640u](http://pubs.acs.org/doi/abs/10.1021/nl015640u)

**Dynamic simulation of wire rope with contact†**

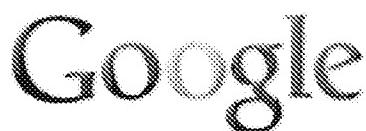
by E Imanishi - 2009 - Related articles  
Computing flow chart of nonlinear dynamic system. 3. **Dynamic  
simulation** of wire rope while rapid winch operation. 3.1 The  
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**Science Links Japan | Molecular Dynamics Simulation of Contact-Line**

by T KIMURA - 2005

Science Links Japan. Gateway to Japan's Scientific and Technical Information ... Title; **Molecular Dynamics Simulation of Contact-Line** ...

[scienclinks.jp/j-east/article/200602/000020060205A1042662.php](http://scienclinks.jp/j-east/article/200602/000020060205A1042662.php) - Cached

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## Multibody system - Wikipedia, the free encyclopedia

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D Rusmini, O Khatib - Advances in robot kinematics, 2000 - books.google.com

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Y Bei, BJ Fregly - Medical engineering &amp; physics, 2004 - Elsevier

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K Van Den Doel, PG Kry, DK Pai - ... of the 28th annual conference on ..., 2001 - portal.acm.org

... **3 Dynamic Simulation** for Sound ... the parameters needed for audio synthesis are often directly available or easily computable from the **simulation**. For example, **multi-body** methods commonly compute constraint forces during periods of continuous **contact** and impulses to re ...[Cited by 151](#) - [Related articles](#) - [All 38 versions](#)

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W Schiehlen - **Multibody system dynamics**, 1997 - Springer... The scientific research in **multibody system dynamics** has been devoted to improvements in modeling considering nonholonomic constraints, flexibility, friction, **contact**, impact, and control. New methods evolved with respect to **simulation** by recursive formalisms, to closed ...[Cited by 255](#) - [Related articles](#) - [All 7 versions](#)

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H Noguchi, M Takasu - The Journal of Chemical Physics, 2001 - link.aip.org

... Expanded stalks often close again before the formation of trans-monolayer **contact** ... We estimate the timescale of our **simulation** on the assumption that the lateral diffusion constant, corresponds to that ... Thus our results should show the **dynamics** of lipid vesicles at 1 ns/100  $\mu$ s. ...[Cited by 97](#) - [Related articles](#) - [All 4 versions](#)

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HC Lee, JH Choi, AA Shabana - Vehicle System Dynamics, 1998 - informaworld.com

In this part of the paper, three dimensional computational capabilities, that includes significant details, are developed for the nonlinear **dynamic** analysis of large scale spatial tracked vehicles. The dimensional nonlinear **contact** force models that describe the interaction ...

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### A detailed multi-body model for dynamic simulation of off-road tracked vehicles

D Rubinstein, R Hitron - Journal of Terramechanics, 2004 - Elsevier

... Three-dimensional **contact** force elements are used to describe the interaction of the track links with the ... The DADS and ADAMS programs are currently the most widely used **multibody** codes [6]. ... of the study is to present a detailed **multi-body** model for **dynamic simulation** of off ...

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### Experimental validation of contact dynamics simulation of constrained robotic tasks

J Van Vliet, I Sharf, O Ma - The International Journal of Robotics ..., 2000 - ijr.sagepub.com

... Another advantage of the approach is that the **contact dynamics** problem can be solved separately from the system **dynamics** at each **simulation** step. This is because its output to the **multibody dynamics** solution is the generalized **contact** force and the state variables describing ...

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### A constraint-stabilized time-stepping approach for rigid **multibody dynamics** with joints, **conta and friction**

M Anitescu, GD Hart - International Journal for Numerical ..., 2004 - interscience.wiley.com

... of rigid **multibody dynamics** with **contact** and friction simulations [3, 9, 16, 17]. Such approaches solve a subproblem of a complexity comparable to the one that is solved here, based on an initial approximation of the active set, and then attempt to advance the **simulation** by one ...

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